SEMESTER EXAMINATION DECEMBER-2023

Course Name: - B.Tech **Semester:- 1st**

Paper Name: - Environmental Science **Paper Code:- TMC-101**

Time - 3 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. **Max Marks-70**

समय–3 घण्टे+ 20 मिनट प्रति घंटे अतिरिक्त–दृष्टिबाधित एवं सह लेखक परीक्षार्थियों के लिए। अधिकतम अंक–70

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **3 mark. All questions are compulsory.**
- Section B- Answer any **5 out of 7** given questions in maximum one hundred fifty (150) words. Each question carries **7 marks.**
- SectionC- Answer any **2 out of 3** given questions in maximum three hundred (300) words. Each question carries **10 marks.**

निर्देश:

- प्रश्न पत्र मे तीन खण्ड अ, ब, व स हैं। सभी खण्ड अनिवार्य हैं।
- खण्ड–अ मे प्रत्येक प्रश्न तीन अंक का है। सभी प्रश्न अनिवार्य हैं।
- खण्ड–ब में सात प्रश्नों में से किन्हीं पाँच प्रश्नों के उत्तर अधिकतम 150 शब्दों में दें। प्रत्येक प्रश्न सात अंक का है।
- खण्ड–स में तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर अधिकतम (250-300) शब्दों में दें। प्रत्येक प्रश्न 10 अंक का है।

Section – A (खण्ड–अ)

Objective Questions(वस्तुनिष्ठप्रश्न)

5x3 =15

1. Answer allthe following questions.
निम्नलिखित सभी प्रश्न अनिवार्य हैं।

i) Sustainable development means
   a) meeting present needs without compromising on future needs
   b) progress of human beings
   c) balance between human needs and the ability of earth to provide the resources
   d) all of the above

ii) _____ is an example of an ex-situ conservation.
   a) Sacred groves
   b) Wildlife sanctuary
   c) Seed bank
   d) National park

iii) Which one of the following is a sedimentary type of biogeochemical cycle?
   a) Oxygen and nitrogen
   b) Phosphorus and sulphur
   c) Carbon and nitrogen
   d) None of the above

iv) Which one of the following is the cause of acid rain?
   a) Water pollution
   b) Noise pollution
   c) Land pollution
   d) Air pollution

v) Which of the following is not a solution for global warming?
   a) Using compact fluorescent light (CFL) bulbs
   b) Planting more trees
   c) Reducing fossil fuel consumption
   d) Deforestation

Section – B (खण्ड–ब)
Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any five of the following questions in maximum150 words. 5x7=35
निम्नलिखित में से किन्हीं पाँच प्रश्नों के उत्तर अधिकतम 150 शब्दों में दें।

i. What is Green Chemistry? Determine the different goals of green chemistry.

ii. Explain Ecosystem, its basic concept and its types.

iii. Explain the different features and Schedule of Wildlife Protection Act, 1972.

iv. Differentiate between the In-situ and Ex-situ methods of biodiversity conservation?

v. What are the different types of Natural resources? Discuss its importance.

vi. What is Ozone layer depletion? Explain the causes and effect of its depletion on human and Environment.

vii. Discuss in brief about 'Chipko Movement'.

Section – C (खण्ड–स)
Descriptive Questions (विवरणात्मक प्रश्न)

3. Answer any two of the following question in maximum 300 words. 2x10=20
निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर अधिकतम 300 शब्दों में दें।

i) Discuss the causes, effects and control measure to reduce water pollution.

ii) Write a note on 'Hotspots of Biodiversity'.

iii) Explain the procedure of Green house effect and Acid rain.

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